ABSTRACT

To provide a camera that is able to capture images of moving subjects as video images, that has a large depth of field and is thus able to capture images of thick objects, and that is able to capture images of living cells and tissues as well as tissues in water.

An camera includes an image pickup element 134 and an objective lens 133 disposed between the image pickup element 134 and a subject. A photosensitive surface 134A of the image pickup element 134 has elements sensitive to the lights in the red, green, and blue spectral regions, respectively. In this camera, using chromatic aberration of the objective lens 133, the element that is sensitive to the light in the red spectral region receives the light in a red spectral region LR from a subject surface segment XR, the element that is sensitive to the light in the green spectral region receives the light in a green spectral region LG from a subject surface segment XG, and the element that is sensitive to the light in the blue spectral region receives the light in a blue spectral region LB from a subject surface segment XB, to form an image. The images taken by the respective elements are imaged individually and produced on a monitor.